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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,136	02/01/2001		Ali Tabatabaie-Raissi	UCF-226DIV	7728
23717	7590	03/02/2004		EXAMINER	
	CES OF BRI	ELVE, MARIA	ELVE, MARIA ALEXANDRA		
COCOA, FI		•	ART UNIT	PAPER NUMBER	
ŕ				1725	

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)					
Office Anti-O	09/775,136	TABATABAIE-RAISSI ET AL.					
Office Action Summary	Examiner	Art Unit					
	M. Alexandra Elve	1725					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_·						
2a) This action is FINAL . 2b) ⊠ This	2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>19 and 20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) 19 and 20 is/are rejected.						
·	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>01 February 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
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Attachment(s)	🗂 .						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Sum Paper No(s)/W	mary (PTO-413) fail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/1/01.		mal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 19 is rejected under 35 U.S.C. 102(e) as being anticipated by Call et al. (US Pat. 6,623,603).

Call et al. discloses an apparatus for the purification of water, using thermocatalytic processes. Impure water is cleaned by removing and/or deactivating toxic inorganic, organic and/or biological species such as sarin, mustard gas, phosgene, cyanogens chloride, anthrax, E. coli, giardia cysts, salmonella, hepatitis and Norwalk viruses. In this process, the steam is brought into contact with a hydrolysis catalyst, preferably in the form of a coated surface or replaceable catalyst element. A heat exchanger plate may be used as a catalytic reactor. The hydrolysis catalyst, which may be a metal oxide, thermocatalytically, deactivates at least 90% of the organic or biological species in the water, converting them to less toxic organic species or non-viable biological species. Results from tests exhibited a removal/deactivation efficiency

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of greater than 99%. (abstract, figures 6-11 & 14, col. 2, lines 19-56, col. 3, lines 21-26, col. 4, line 41, col. 5, lines 45-50, col. 17, lines 8-20)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Call et al., as stated in the above paragraph and further in view of Ritchie (US Pat. 5,069,885).

Call et al. does not teach rotation of the catalyst. Ritchie discloses an apparatus for the purification of a fluid. The apparatus includes a coiled and helical catalytic substrate, which has a photoreactive semiconductor material, bonded to it. (abstract, figures 1-4, col. 2, lines 13-21)

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a coiled/rotating catalyst, as taught by Ritchie in the Call et al. system because of the increased surface area and hence the greater number of reaction sites available to remove pollutants.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 21, 2004.

M. ALEXANDRA ELVE PRIMARY EXAMINER